

**City of Chattanooga, TN**  
**Personnel Class Specification**

***CLASS CODE 1802***

**FLSA: Non-Exempt**

**CLASSIFICATION TITLE: AIR POLLUTION INSTRUMENT  
TECHNICIAN**

**PURPOSE OF CLASSIFICATION**

The purpose of this classification is to maintain, calibrate, and repair electronic and mechanical components of air monitoring equipment, to record and report air quality data, and to perform technical duties in maintaining computers.

**ESSENTIAL FUNCTIONS**

**The following duties are normal for this position. These are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.**

Calibrates mechanical, electronic, and pneumatic components and parts of air quality monitors; conducts precision and accuracy checks to ensure proper operation of equipment; troubleshoots and repairs monitors; installs filters and other parts.

Conducts daily readings of ozone, AQI, pollen and mold; checks and reads sample flows; obtains TSP and PM10 data from weighed filters; checks accuracy of data; records air quality data and submits reports to National Weather Service and state environmental protection agency.

Prepares precision and accuracy reports, calibration reports, AIRS reports, PARS reports, maintenance logs and other documents.

Enters and maintains air quality data in database management systems; maintains computer files and reports.

Assists supervisors in the acquisition of new monitors and equipment by performing various duties including evaluating monitoring requirements, developing technical specifications for purchases, meeting with vendors to discuss equipment needs, preparing purchase requisitions for approved equipment.

Tests, assembles and installs computer hardware, related peripherals, and computer software; operates and maintains data files, performs daily backups.

Conducts lab work of analyzing pollen rods by microscope; takes photographs of microscope views.

Trains staff in the operation and maintenance of air monitoring equipment.

Maintains inventory of monitoring equipment and spare parts.

Uses volt meter, scopes, microscope, lab scales, computers, air conditioners and other machinery and equipment.

Refers to federal regulations, technical manuals, data reports, policies and procedures, city maps, and various charts and tables in performing assigned job duties.

### **ADDITIONAL FUNCTIONS**

Performs various grounds and building maintenance duties at monitoring sites.

Performs other related duties as required.

### **MINIMUM QUALIFICATIONS**

Vocational/Technical degree with training emphasis in electronics; supplemented by 5 to 11 months previous experience and/or training involving electronic and instrument repair and maintenance; or any equivalent combination of education, training, and experience which provides the requisite knowledge, skills, and abilities for this job. Must possess and maintain a valid Tennessee driver's license. Certification as an ASE Mechanic is required.

### **PERFORMANCE APTITUDES**

**Data Utilization:** Requires the ability to calculate and/or tabulate data. Includes performing subsequent actions in relation to these computational operations.

**Human Interaction:** Requires the ability to provide guidance, assistance, and/or interpretation to others regarding the application of procedures and standards to specific situations.

**Equipment, Machinery, Tools, and Materials Utilization:** Requires the ability to operate and control the actions of equipment, machinery, tools and/or materials requiring complex and rapid adjustments.

**Verbal Aptitude:** Requires the ability to utilize a wide variety of reference, descriptive, and/or advisory data and information.

**Mathematical Aptitude:** Requires the ability to perform addition, subtraction, multiplication, and division; the ability to calculate decimals and percentages; the ability to utilize principles of fractions; and the ability to interpret graphs.

**Functional Reasoning:** Requires the ability to apply principles of rational systems; to interpret instructions furnished in written, oral, diagrammatic, or schedule form; and to exercise independent judgment to adopt or modify methods and standards to meet variations in assigned objectives.

**Situational Reasoning**: Requires the ability to exercise judgment, decisiveness and creativity in situations involving evaluation of information against measurable or verifiable criteria.

## **ADA COMPLIANCE**

**Physical Ability**: Tasks require the regular and sustained performance of moderately physically demanding work, typically involving some combination of climbing and balancing, stooping, kneeling, crouching, and crawling, and that generally involves lifting, carrying, pushing, and/or pulling of moderately heavy objects and materials (20-50 pounds).

**Sensory Requirements**: Some tasks require the ability to perceive and discriminate colors or shades of colors, sounds, odor, depth, texture, and visual cues or signals. Some tasks require the ability to communicate orally.

**Environmental Factors**: Performance of essential functions may require exposure to adverse environmental conditions, such as dirt, dust, pollen, odors, wetness, humidity, rain, fumes, temperature and noise extremes, machinery, vibrations, electric currents, or toxic agents.

Chattanooga, Tennessee, is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.